

KEMBLE PRIMARY & SIDINGTON C of E PRIMARY SCHOOLS



Computing POLICY

Member of staff responsible	K Wyatt
Governor responsible	
Sub-Committee responsible	Standards & performance
Date agreed with staff	4.1.16
Date discussed with pupils	-
Parent group discussions	-
Date agreed at Sub-Committee	13.1.16
Date approved at Governing Body	20.1.16
Frequency of policy review	3 Yearly
Date next review due	January 2019
Statutory Policy	
Review Level	

Document Version Control

Issue Number	Issue Date	Summary of changes
1.1	Jan 16	New policy

Please also read our e-safety policy

Purpose of study:

Both schools are committed to providing a high-quality computing education which equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate - able to use, and express themselves and develop their ideas through, information and communication technology - at a level suitable for the future workplace and as active participants in a digital world.

Aims:

In line with the national curriculum for computing we aim to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

Planning:

Computing is taught through discrete lessons to teach skills and concepts and used in all subject areas to support learning. We have adopted the Wokingham Scheme of Work as the basis for discrete lessons and these are taught on a rolling program. More detailed information can be found on the curriculum map.

Kemble	Autumn	Spring	Summer
Beech (Yr A)	Data retrieving and organising E safety	Communicating E safety	Algorithms and Programs E safety
Beech (Yr B)	Data retrieving and organising E safety	Communicating E safety	Algorithms and Programs E safety
Horse Chestnut (Yr A)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety

Horse Chestnut (Yr B)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety
Chestnut (Yr A)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety
Chestnut (Yr B)	Data retrieving and organising (focus graphics) Using the Internet E safety	Databases (focus spreadsheets) Presentation E safety	Algorithms and Programs Communicating E safety

Siddington	Autumn	Spring	Summer
Robins	Data retrieving and organising E safety	Communicating E safety	Algorithms and Programs E safety
Kingfishers (Yr A)	Data retrieving and organising Using the Internet E safety	Communicating Presentation E safety	Algorithms and Programs Databases E safety
Kingfishers (Yr B)	Data retrieving and organising Using the Internet E safety	Communicating Presentation E safety	Algorithms and Programs Databases E safety
Owls (Yr A)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety
Owls (Yr B)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety
Owls (Yr C)	Data retrieving and organising Using the Internet E safety	Databases Presentation E safety	Algorithms and Programs Communicating E safety

Sessions are then outlined, using the school Medium Term planning grids, recording session aims, key skills and outcomes.

Links to other subjects:

Computing links to other subjects. Links are made clear within the Medium Term Planning Document and Topic Planning Map where key skills are identified.

Assessment for Learning:

Assessment data is collected 3 times a year to monitor attainment and progress in the two schools. A tracking spreadsheet, linked to the Wokingham Scheme of Work is available for teachers to build an on-going record.

Teachers assess before, during and after teaching to inform planning. Lessons can then be adapted for individual or groups of children's needs.

Subject leadership:

The coordination and planning of the computing curriculum is the responsibility of the subject leader, who also:

- supports colleagues in their teaching, by keeping informed about current developments and by providing a strategic lead and direction for this subject;
- gives the head teacher & governors an annual summary report in which s/he evaluates the strengths and weaknesses in computing and indicates areas for further improvement;
- uses specially allocated regular management time to review evidence of the children's work, and to observe both computing lessons and activities of cross curricular skill application across the school.

Resources:

Both schools have a combination of Windows based laptops and iPads for use across the school. These are updated on a rolling program as the need arises.

Suggested Resources to support learning include:

The Wokingham Scheme of Work for Computing

Somerset Scratch resources

(<https://slp.somerset.org.uk/sites/edtech/SitePages/Primary%20Computing/Scratch.aspx>)

Barefoot Computing (<http://barefootcas.org.uk/>)

Kodable (<https://www.kodable.com/resources>)

Computing at School (<http://community.computingatschool.org.uk/resources>)

BBC Computing (<http://www.bbc.co.uk/schools/0/computing/28972462>)

Simon Haughton's Website (<http://www.simonhaughton.co.uk/ict-lessons/>)